

Subject card

Subject name and code	Identification of invertebrates - lecture, PG_00154326						
Field of study	Natural Resources Conservation						
Date of commencement of studies	October 2024		Academic year of realisation of subject		2024/2025		
Education level	undergraduate studies		Subject group		Obligatory subject group in the field of study Subject group related to scientific research in the field of study		
Mode of study	full-time studies		Mode of delivery		at the university		
Year of study	1		Language of instruction		Polish		
Semester of study	1		ECTS credits		3.0		
Learning profile	academic		Assessment form				
Conducting unit	Pracownia Parazytologii i Zoologii Ogólnej -> Katedra Zoologii Bezkręgowców i Parazytologii -> Faculty of Biology						
Name and surname of lecturer (lecturers)	Subject supervisor		dr Paulina Kozina				
	Teachers		dr Paulina Kozina prof. dr hab. Joanna Izdebska dr hab. Leszek Rolbiecki				
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	30.0	0.0	0.0	0.0	0.0	30
	E-learning hours included: 0.0						
Learning activity and number of study hours	Learning activity	Participation in didactic classes included in study plan		Participation in consultation hours		Self-study	SUM
	Number of study hours	30		4.0		41.0	75
Subject objectives	1 To review the major types of invertebrate animals and Protista (Protozoa); to learn about structure and biology. 2 To be able to identify the basic taxa.						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[OZPL3_W04] The graduate possesses advanced knowledge and understanding of the characteristics, systematics, and evolution of selected groups of organisms, as well as the basic concepts and mechanisms of evolution	The graduate will be familiar with the characteristics and systematics of selected groups of invertebrate animals in terms of inventory and valorisation of natural history	[SW4] test/exam - oral or written
	[OZPL3_U08] The graduate is able to use the scientific language typical of the biological sciences in discussions with specialists	In discussion with specialists be able to use scientific language on issues relating to identification of invertebrate animals	[SU1] oral statement/conversation/discussion [SU4] test/exam - oral or written
	[OZPL3_K01] The graduate is ready to recognise the limitations in his/her own knowledge and understands the need for continuous learning and development	The graduate is aware of the limitations of their own knowledge and understand the need for lifelong learning in order to carry out correct inventory work and prepare documents on natural valorisation	[SK1] oral statement/conversation/discussion
	[OZPL3_U03] The graduate is able to search for and use available sources of biological information, including electronic sources, and critically analyse them	The graduate independently search for and use available sources of biological information, including online and electronic sources	[SU4] test/exam - oral or written
	[OZPL3_W01] The graduate possesses advanced knowledge and understanding of the structural and functional relationships at the cellular, tissue, organ, and body levels.	The graduate introduces the structure of the different types of Protozoa and invertebrate animals at different levels of organization	[SW4] test/exam - oral or written
	[OZPL3_K08] The graduate is ready to systematically update his/her natural knowledge and to apply it in practice	The graduate systematically update their knowledge of invertebrate animals and knows its practical application	[SK1] oral statement/conversation/discussion
Subject contents	Characterisation, systematics and identification of selected groups of invertebrate animals with particular emphasis on national species, including endangered, protected, bioindicator, alien and invasive species.		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	attendance	85.0%	0.0%
	written test	51.0%	100.0%
Recommended reading	Basic literature	Błaszak C., red. 2009-2015. Zoologia, t.1.; t. 2, cz. 1, 2.; t. 3, cz. 1. PWN, Warszawa. Czapik A. 1992. Podstawy protozoologii. PWN, Warszawa. Grabda E., red. 1989. Zoologia bezkręgowce, t. 1. PWN, Warszawa.	
	Supplementary literature	Błoszyk J., Izdebska J.N., Rolbiecki L. 2022. Digital catalogue of biodiversity of Poland Animalia: Arthropoda: Chelicerata: Arachnida: Acari. Version 1.3. Polish Biodiversity Information Network. Checklist dataset https://doi.org/10.15468/fzfcqd . Bogdanowicz W., red. 2004, 2007, 2008. Fauna Polski, charakterystyka i wykaz gatunków. MiIZ, PAN, Warszawa. Dogiel W.A. 1986. Zoologia bezkręgowców. PWRiL, Warszawa. Dzik J. 2015. Zoologia. Różnorodność i pokrewieństwa zwierząt. WUW, Warszawa. Głowaciński Z., Nowacki J., red. 2004. Polska czerwona księga zwierząt Bezkręgowce. Instytut Ochrony Przyrody PAN, Kraków. Izdebska J.N., Rolbiecki L. 2022. Digital catalogue of biodiversity of Poland Animalia: Arthropoda: Hexapoda: Insecta: Phthiraptera. Version 1.3. Polish Biodiversity Information Network. Checklist dataset https://doi.org/10.15468/4p8vwc . Izdebska J.N., Rolbiecki L. 2022. Digital catalogue of biodiversity of Poland Animalia: Arthropoda: Hexapoda: Insecta: Siphonaptera. Version 1.3. Polish Biodiversity Information Network. Checklist dataset https://doi.org/10.15468/pxgb62 . Jura C. 2007. Bezkręgowce. Podstawy morfologii funkcjonalnej, systematyki i filogenezy. PWN, Warszawa. Kozina P., Łopucki R. 2017. Kolejne stanowisko modliszki zwyczajnej Mantis religiosa religiosa na terenie Polesia Lubelskiego. Przegląd Przyrodniczy 28(1): 117-121. Moore J. 2009. Wprowadzenie do zoologii bezkręgowców. WUW, Warszawa	
	eResources addresses	Adresy na platformie eNauczanie:	

Example issues/ example questions/ tasks being completed	
Work placement	Not applicable

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